

Title (en)
Device for intracorporeal measurement of intracranial pressure

Title (de)
Vorrichtung zur intrakorporalen Messung des Hirndrucks

Title (fr)
Dispositif pour mesurer la pression intracrânienne à l'intérieur du corps

Publication
EP 1312302 A2 20030521 (DE)

Application
EP 02020447 A 20020911

Priority
DE 10156469 A 20011116

Abstract (en)
An arrangement consists of an implantable measuring unit composed of a sensor element and a telemetry unit on a carrier. An inductive spool is fixed to the carrier, and is located in a sleeve. The unit has an extra corporal telemetric interrogation section. The pressure receiver and the telemetry electronics are located in a chip which is in contact with the spool. <??>An arrangement consists of an implantable measuring unit (8) composed of a sensor element and a telemetry unit on a carrier. An inductive spool (3) is fixed to the carrier, and is located in a sleeve (7). The unit has an extra corporal telemetric interrogation section. The pressure receiver and the telemetry electronics are located in a chip (2) which is in contact with the spool. The chip and the spool section are embedded in a pressure transmitting medium (6), e.g. a liquid, gas, gel or oil, especially silicone oil.

Abstract (de)
Eine Vorrichtung zur intrakorporalen Druckmessung, insbesondere Hirndruckmessung an Patienten mit einer implantierbaren Messeinrichtung 8, welche einen Chip 2 aufweist, der sowohl den Druckaufnehmer als auch die Telemetrieelektronik beinhaltet und welcher direkt mit einer induktiven Spule 3 elektrisch kontaktiert ist, wobei zumindest der Chip 1 und der vom Chip überlappte Spulenteil in einem Druck übertragenden Medium 6 eingebettet sind, das von einer flexiblen Umhüllung 7 druckdicht verschlossen ist. Mittels einer extrakorporalen Telemetrieeinrichtung werden die Messdaten abgefragt. <IMAGE>

IPC 1-7
A61B 5/03

IPC 8 full level
A61B 5/03 (2006.01); **A61B 5/00** (2006.01)

CPC (source: EP)
A61B 5/031 (2013.01); **A61B 5/0002** (2013.01)

Citation (applicant)
DE 19705474 A1 19980827 - SICAN F & E GMBH SIBET [DE]

Cited by
DE102007046694A1; EP2025286A1; US2016287101A1; WO2012052078A1; DE102005063519B4; DE102005020569A1; EP2022396A3; DE102005020569B4; EP3277158A4; US11291377B2; EP2008583A1; US10362947B2; WO2006117123A1; US7827845B2; EP2016893A2; US9931043B2; EP2055345A1; US10675451B2; EP2055228A1; US11122975B2; US10265509B2; EP2055230A1; US8337413B2; EP2578145A1; US8192366B2; US8282566B2; US7785268B2; EP2022396A2; US11701504B2

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